	Document ID	Issue Date	Pages	Title	Current OR
1	US 20050157781 A1	20050721	97	Signal receiver with data precessing function	375/233
2	US 20050157780 A1	20050721	98	Signaling system with selectively-inhibited adaptive equalization	375/232
3	US 20050153677 A1	20050714	86	System and method for on-chip filter tuning	455/340
4	US 20050107055 A1	20050519	86	Integrated switchless programmable attenuator and low noise amplifier	455/234.1
5	US 20050043068 A1	20050224	19	Communication device with a self-calibrating sleep timer	455/574
6	US 20040219898 A1	20041104	170	Variable gain amplifier for low voltage applications	455/252.1
7	US 20040218699 A1	20041104	16	Method and wireless device employing a preamble to initiate communications	375/343
8	US 20040204186 A1	20041014	9	Transmitter for remote control system	455/574
9	US 20040203834 A1	20041014	112	Remote radio data communication system with data rate switching	455/453
10	US 20040136440 A1	20040715	87	Spread spectrum clock generation circuit, jitter generation circuit and semiconductor device	375/130
11	US 20040053595 A1	20040318	26	High frequency semiconductor integrated circuit and radio communication system	455/316
12	US 20040022311 A1	20040205	46	Selectable-tap equalizer	375/229
13	US 20030194978 A1	20031016	85	System and method for coarse/fine PLL adjustment	455/197.1

	Current XRef	Inventor
1		Ho, Andrew et al.
2		Werner, Carl W. et al.
3	257/E27.046; 455/313; 455/333	Vorenkamp, Pieter et al.
4	257/E27.046; 455/138; 455/219	Bult, Klaas et al.
5	455/343.4	Shohara, Aki et al.
6	455/127.2	Bult, Klaas et al.
7	375/295; 375/344; 455/343.3	Carsello, Stephen R.
8	455/73	Matsumoto, Munenori
9	455/451	Mahany, Ronald L.
10	332/128; 375/376	Miyata, Shinji et al.
11	455/258; 455/260; 455/333; 455/552.1	Shinbo, Jiro et al.
12		Zerbe, Jared L. et al.
13	257/E27.046; 455/180.3; 455/315; 455/331	Vorenkamp, Pieter et al.

	Document ID	Issue Date	Pages	Title	Current OR
14	US 20030186658 A1	20031002	8	Method of adjusting the cutoff frequency of an electronic filtering system, and corresponding system	455/130
15	US 20030174757 A1	20030918	15	Frequency hopping system for intermittent transmission	375/132
16	US 20030162521 A1	20030828	86	System and method for on-chip filter tuning	455/302
17	US 20030162496 A1	20030828	9	Low power transponder circuit	455/11.1
18	US 20030128776 A1	20030710	118	Method and apparatus for reducing DC off sets in a communication system	375/319
19	US 20030119503 A1	20030626	22	Communication device with a self-calibrating sleep timer	455/434
20	US 20030099210 A1	20030529	503	RADIO FREQUENCY DATA COMMUNICATIONS DEVICE	370/311
21	US 20030078006 A1	20030424	276	Remote radio data communication system with data rate switching	455/63.1
22	US 20030043949 A1	20030306	3353	Radio frequency data communications device	375/374
23	US 20030022646 A1	20030130	86	INTEGRATED SWITCHLESS PROGRAMMABLE ATTENUATOR AND LOW NOISE AMPLIFIER	455/232.1
24	US 20030011500 A1	20030116	62	Noise suppression circuit, asic, navigation apparatus, communication circuit, and communication apparatus having the same	341/155
25	US 20020174153 A1	20021121	3354	Radio frequency data communications device	708/252
26	US 20020077146 A1	20020620	11	Electronic devices including indicator control circuits and related methods of controlling indicators	455/567
27	US 20010041548 A1	20011115	170	Variable gain amplifier for low voltage applications	455/252.1

	Current XRef	Inventor
14	455/146	Ravatin, Jean et al.
15		Partyka, Andrzej
16	257/E27.046; 455/296	Vorenkamp, Pieter et al.
17	455/16	Liu, Mike Ming
18		Rawlins, Gregory S. et al.
19		Shohara, Aki et al.
20		O'TOOLE, JAMES E. et al.
21	455/517	Mahany, Ronald L.
22		O'Toole, James E. et al.
23	257/E27.046; 455/234.1	Bult, Klass et al.
24	327/384; 370/200	Takeuchi, Hideki et al.
25	340/10.1; 370/311	O'Toole, James E. et al.
26		Mitten, John W. et al.
27	330/250; 455/333	Bult, Klaas et al.

	Document ID	Issue Date	Pages	Title	Current OR
28	US 20010011013 A1	20010802	86	System and method for on-chip filter tuning	455/307
29	US 6906596 B2	20050614	19	Oscillation circuit and a communication semiconductor integrated circuit	331/36C
30	US 6889055 B1	20050503	20	Technique for reducing average power consumption in a wireless communications device	455/458

	Current XRef	Inventor
28	257/E27.046; 455/226.1; 455/67.11	Vorenkamp, Pieter et al.
29	327/156; 331/117FE; 331/117R; 331/177V; 331/182; 331/183; 331/185; 455/179.1; 455/180.3; 455/180.4; 455/182.2; 455/260	Kitamura; Tomomitsu et al.
30	340/7.1; 340/7.2; 340/7.32; 340/7.33; 455/343.1; 455/343.2; 455/550.1; 455/572; 455/574	Neufeld; Arthur James

	Document ID	Issue Date	Pages	Title	Current OR
31	US 6879816 B2	20050412	85	Integrated switchless programmable attenuator and low noise amplifier	455/232.1
32	US 6870875 B1	20050322	22	Transmission of urgent messages in frequency hopping system for intermittent transmission	375/132
33	US 6865381 B2	20050308	84	System and method for on-chip filter tuning	455/307
34	US 6836472 B2	20041228	52	Radio frequency data communications device	370/335
35	US 6836468 B1	20041228	56	Radio frequency data communications device	370/310
36	US 6804503 B2	20041012	19	Communication device with a self-calibrating sleep timer	455/343.4
37	US 6795425 B1	20040921	38	Wireless communications methods and apparatus employing paging attribute descriptors	370/345
38	US 6788924 B1	20040907	9	Power saving protocol for TDMA multi-line wireless telephone handsets	455/265

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31	257/E27.046; 330/284; 333/81R; 455/234.1	Bult; Klaas et al.
32	375/134	Partyka; Andrzej
33	257/E27.046; 327/554; 455/280	Vorenkamp; Pieter et al.
34	340/10.1; 340/10.33; 342/42; 342/44; 342/51; 708/250; 708/252; 713/322	O'Toole; James E. et al.
35	340/10.33; 342/42; 342/44; 342/51	O'Toole; James E. et al.
36	340/7.32; 375/354; 455/208; 455/265; 455/574	Shohara; Aki et al.
37	370/321; 370/328; 455/424; 455/458	Raith; Alex Krister
38	370/311; 455/343.2; 455/574	Knutson; Paul Gothard et al.

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39	US 6771613 B1	20040803	53	Radio frequency data communications device	370/277
40	US 6735183 B2	20040511	55	Radio frequency data communications device	370/311
41	US 6728293 B1	20040427	15	Hopping pattern generation method in frequency hopping system for intermittent transmission	375/131
42	US 6721289 B1	20040413	55	Radio frequency data communications device	370/311
43	US 6717446 B1	20040406	14	High speed programmable charge-pump with low charge injection	327/157
44	US 6700920 B1	20040302	17	Frequency hopping system for intermittent transmission	375/132
45	US 6684065 B2	20040127	170	Variable gain amplifier for low voltage applications	455/252.1
46	US 6647278 B2	20031111	10	Electronic devices including indicator control circuits and related methods of controlling indicators	455/567
47	US 6639939 B1	20031028	120	Direct sequence spread spectrum method computer-based product apparatus and system tolerant to frequency reference offset	375/140
48	US 6625553 B1	20030923	51	Vehicle safety and security system	702/63

	Current XRef	Inventor
39		O'Toole; James E. et al.
40	340/10.33; 342/42; 342/44; 342/51	O'Toole; James E. et al.
41	340/870.15	Partyka; Andrzej
42	340/10.33; 342/42; 342/44; 342/51	O'Toole; James E. et al.
43	327/148; 375/374	Vu; Ha Chu
44		Partyka; Andrzej
45	330/254; 330/278; 455/127.2	Bult; Klaas et al.
46	370/211; 375/238; 455/550.1; 455/575.1	Mitten; John W. et al.
47	375/344; 375/355	Naden; Gary A. et al.
48	307/10.7; 340/7.32; 370/311	Modgil; Onkar S.

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49	US 6621411 B2	20030916	41	Compartment sensing system	340/425.5
50	US 6591091 B1	20030708	86	System and method for coarse/fine PLL adjustment	455/179.1
51	US 6549766 B2	20030415	85	System and method for on-chip filter tuning	455/307
52	US 6535581 B2	20030318	11	Bypass for telephone system splitter	379/29.01
53	US 6535544 B1	20030318	17	Frequency hopping system for intermittent transmission	375/132
54	US 6516352 B1	20030204	32	Network interface system and method for dynamically switching between different physical layer devices	709/250

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49	180/287; 307/10.2; 340/426.1; 340/429; 340/430; 340/506; 340/507; 343/713; 455/345	McCarthy; Kevin C. et al.
50	257/E27.046; 455/180.3; 455/182.3; 455/183.1; 455/207; 455/260; 455/315	Vorenkamp; Pieter et al.
51	257/E27.046; 327/554; 455/280	Vorenkamp; Pieter et al.
52	370/248; 370/251; 379/22.07; 379/9.06	Singaliese; Michael
53	340/870.11; 375/357	Partyka; Andrzej
54	370/463	Booth; Bradley J. et al.

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55	US 6498966 B1	20021224	7	Method and system for distribution of stand-by electric power	700/296
56	US 6498936 B1	20021224	44	Methods and systems for coding of broadcast messages	455/466
57	US 6473607 B1	20021029	20	Communication device with a self-calibrating sleep timer	455/343.1
58	US 6466634 B1	20021015	58	Radio frequency data communications device	375/374
59	US 6445935 B1	20020903	11	Electronic devices including indicator control circuits and related methods of controlling indicators	455/567
60	US 6377315 B1	20020423	99	System and method for providing a low power receiver design	348/726
61	US 6285865 B1	20010904	84	System and method for on-chip filter tuning	455/307
62	US 6278698 B1	20010821	3337	Radio frequency data communications device	370/311
63	US 6252868 B1	20010626	27	Digital control channels having logical channels supporting broadcast SMS	370/347
64	US 6212176 B1	20010403	26	Digital control channels having logical channels for multiple access radiocommunication	370/347

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55	307/64; 307/65; 379/324; 455/343.5; 700/286; 700/82	.ANG.kerlund; John
56	370/337; 714/746; 714/786	Raith; Alex Krister
57	340/7.32; 375/354; 455/208; 455/265; 455/574	Shohara; Aki et al.
58	340/10.1	O'Toole; James E. et al.
59	370/211; 375/238; 455/550.1	Mitten; John W. et al.
60	257/E27.046; 348/725; 348/731; 455/179.1; 725/151	Carr; Frank et al.
61	257/E27.046; 327/554; 455/280	Vorenkamp; Pieter et al.
62	340/10.33	O'Toole; James E. et al.
63	455/466	Diachina; John W. et al.
64	455/466	Andersson; H.ang.kan Clas et al.

	Document ID	Issue Date	Pages	Title	Current OR
65	US 6166643 A	20001226	42	Method and apparatus for controlling the whereabouts of an animal	340/573.3
66	US 6065073 A	20000516	30	Auto-polling unit for interrupt generation in a network interface device	710/46
67	US 6064308 A	20000516	41	RF signaling system and system for controlling the whereabouts of animals using same	340/573.3
68	US 6058137 A	20000502	15	Frequency hopping system for intermittent transmission	375/131
69	US 6055418 A	20000425	72	Computer program product configured to control modular transmission system components	455/91
70	US 6041047 A	20000321	28	Digital control channels having logical channels supporting broadcast SMS	370/347
71	US 5999561 A	19991207	140	Direct sequence spread spectrum method, computer-based product, apparatus and system tolerant to frequency reference offset	375/142
72	US 5930706 A	19990727	29	Detecting messages transmitted over a communications channel such as a paging channel	455/422.1

	Current XRef	Inventor
65	119/721; 119/908; 340/572.7; 455/106; 455/899; 455/91	Janning; Joseph J. et al.
66	370/908; 709/203; 709/253; 710/15; 710/266; 713/100; 714/47	Booth; Bradley J.
67	119/721; 119/908; 340/572.7; 455/106; 455/899; 455/91	Janning; Joseph J. et al.
68		Partyka; Andrzej
69	330/124R; 330/295; 455/115.1; 455/127.2; 455/67.11	Harris; Clifford et al.
70		Diachina; John W. et al.
71		Naden; Gary A. et al.
72	340/7.35	Raith; Alex Krister

	Document ID	Issue Date	Pages	Title	Current OR
73	US 5929752 A	19990727	15	Clandestine missing vehicle location reporting using cellular channels	340/426.2
74	US 5809013 A	19980915	56	Message packet management in a wireless security system	370/253
75	US 5774791 A	19980630	39	Low power wireless communication system employing magnetic control zones	455/41.1
76	US 5768276 A	19980616	30	Digital control channels having logical channels supporting broadcast SMS	370/432
77	US 5754956 A	19980519	35	Methodical scanning method and apparatus for portable radiotelephones	455/434
78	US 5684828 A	19971104	26	Wireless data module with two separate transmitter control outputs	340/10.2
79	US 5678227 A	19971014	12	Apparatus and method for minimizing the turn on time for a receiver operating in a discontinuous receive mode	455/343.4
80	US 5631924 A	19970520	10	Method and apparatus for baud rate detection in an FM receiver using parameters unrelated to baud rate as confirmation	375/225
81	US 5604744 A	19970218	26	Digital control channels having logical channels for multiple access radiocommunication	370/347
82	US 5592129 A	19970107	17	High resolution, large multiplication factor digitally-controlled frequency multiplier	331/111

	Current XRef	Inventor
73	340/988; 342/457; 455/456.5	Janky; James M. et al.
74	340/636.1; 340/636.15	Kackman; Gerald M.
75	455/69; 455/92	Strohallen; Gene Michael et al.
76	380/270; 713/163	Diachina; John W. et al.
77	455/437; 455/515	Abreu; Victor M. et al.
78	340/10.41; 340/10.5; 340/3.9; 375/219	Bolan; Michael L. et al.
79	340/7.33; 370/311	Connell; Lawrence E. et al.
80	375/340	Callaway, Jr.; Edgar H. et al.
81		Andersson; H.ang.kan C. et al.
82	327/107; 327/155; 327/160; 327/42; 327/43; 331/1A; 331/143; 331/16; 331/179; 331/25; 331/34; 455/260	Fried; Rafael et al.

	Document ID	Issue Date	Pages	Title	Current OR
83	US 5568516 A	19961022	39	Very low power cordless headset system	375/259
84	US 5551078 A	19960827	11	Apparatus and method for minimizing the turn on time for a receiver operating in a discontinuous receive mode	455/343.3
85	US 5537407 A	19960716	44	Watch pager system and communication protocol	370/314
86	US 5526357 A	19960611	103	Communication system and method for determining the location of a transponder unit	370/346
87	US 5455579 A	19951003	25	Digitized stored voice paging receiver	341/110
88	US 5384564 A	19950124	21	Battery saving arrangement for selectively addressable, portable receivers	340/7.35
89	US 5365516 A	19941115	95	Communication system and method for determining the location of a transponder unit	370/335
90	US 5175759 A	19921229	14	Communications device with movable element control interface	455/569.1

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83	375/219; 375/258; 381/163; 455/41.1	Strohallen; Gene M. et al.
84	375/365	Connell; Lawrence E. et al.
85	340/7.34; 340/7.43	Park; Daniel J. et al.
86	340/991; 342/457; 714/821	Jandrell; Louis H. M.
87	340/7.43; 340/7.52; 340/7.57; 340/7.58; 379/88.15; 379/88.22; 455/18; 455/413	Bennett; Paul T. et al.
88	455/343.3	Wycoff; Keith H. et al.
89	340/991; 342/457; 370/337; 375/130; 455/524	Jandrell; Louis H. M.
90	455/566; 455/574; 704/270	Metroka; Michael P. et al.

	Document ID	Issue Date	Pages	Title	Current OR
91	US 5168271 A	19921201	39	Paging and time keeping system with transmission of time slot identification used for synchronization	340/7.43
92	US 5164960 A	19921117	57	Medium attachment unit for use with twisted pair local area network	375/224
93	US 5159713 A	19921027	39	Watch pager and wrist antenna	455/344
94	US 5049884 A	19910917	15	Battery powered police radar warning receiver	342/20
95	US 5025486 A	19910618	40	Wireless communication system with parallel polling	340/3.1
96	US 4989261 A	19910129	40	Power supply intercept with reference output	455/127.1
97	US 4984291 A	19910108	41	Coded communication system with shared symbols	340/7.39
98	US 4955038 A	19900904	41	Low-power RF receiver	375/256
99	US 4897835 A	19900130	49	High capacity protocol with multistation capability	370/314

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91	340/7.34; 340/7.35; 370/311; 370/314; 370/350; 455/181.1; 455/343.4	Hoff; Don G.
92		Wincn; John M. et al.
93	340/7.53; 340/7.63; 455/351	Gaskill; Garold B. et al.
94	455/226.1; 455/228	Jaeger; James L. et al.
95	340/10.1; 340/3.51; 340/7.1; 340/825.5; 370/346	Klughart; Kevin M.
96	340/7.37	Lee; Robert D.
97	340/7.21; 340/7.32; 455/517	Dias; Donald R. et al.
98	340/10.33; 342/21; 375/316; 455/343.1	Lee; Robert D. et al.
99	340/7.42; 340/7.43; 370/349; 968/896; 968/DIG.1	Gaskill; Garold B. et al.

	Document ID	Issue Date	Pages	Title	Current OR
100	US 4893094 A	19900109	12	Frequency synthesizer with control of start-up battery saving operations	331/1A
101	US 4804954 A	19890214	24	Battery saving method for portable communications receivers	340/7.34
102	US 4803487 A	19890207	18	Portable communications receiver with separate information presentation means	340/7.54
103	US 4713808 A	19871215	43	Watch pager system and communication protocol	370/314
104	US 4698748 A	19871006	30	Power-conserving control system for turning-off the power and the clocking for data transactions upon certain system inactivity	713/322
105	US 4631496 A	19861223	17	Battery saving system for a frequency synthesizer	331/1A

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100	331/14; 331/17; 331/25; 455/343.1	Herold; Barry W. et al.
101	340/7.54; 370/311; 370/350	Macnak; Philip P. et al.
102	340/7.32; 340/7.44; 340/7.56; 340/7.58; 340/7.63; 379/296; 455/11.1; 455/8	Willard; David F. et al.
103	340/7.27; 340/7.32; 340/7.39; 340/7.42; 340/7.44; 340/7.53; 340/7.56; 340/7.63; 343/718; 370/349; 968/896; 968/DIG.1	Gaskill; Garold B. et al.
104	455/343.2; 713/321; 713/323	Juzswik; David L. et al.
105	331/14; 331/186; 331/25; 455/574; 455/76	Borras; Jaime A. et al.

	Document ID	Issue Date	Pages	Title	Current OR
106	US 4528662 A	19850709	31	Multiplex control system having enhanced integrity	370/216
107	US 4472820 A	19840918	69	Program swallow counting device using a single synchronous counter for frequency synthesizing	377/52
108	US 4441098 A	19840403	70	Multiposition switch with minimum interconnections	341/20
109	US 4434461 A	19840228	24	Microprocessor with duplicate registers for processing interrupts	710/260
110	US 4419765 A	19831206	50	Signal absence detector	340/7.35
111	US 4403342 A	19830906	69	Zone switching system for a frequency synthesized transceiver	455/76
112	US 4394776 A	19830719	69	Priority channel system for a synthesized transceiver	455/76
113	US 4377871 A	19830322	69	Transmit security system for a synthesized transceiver	455/76
114	US 4220820 A	19800902	19	Control circuitry for a radio telephone	455/564
115	US 4182994 A	19800108	10	Phase locked loop tuning system including stabilized time interval control circuit	331/1A
116	US 4179661 A	19791218	14	Circuit for programming the search circuit of a radio receiver	455/154.2

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106	370/244; 370/422; 370/438; 370/449	Floyd; William M. et al.
107	331/1A; 377/110; 377/47; 455/183.1; 455/76	Borras; Jaime A.
108	340/825.77; 455/76	Borras; Jaime A. et al.
109	455/418; 455/73	Puhl; Larry C.
110	327/44; 327/68; 455/161.3; 455/227; 455/343.2	Wycoff; Keith H. et al.
111	455/186.1; 455/560; 455/77	Borras; Jaime A. et al.
112	455/166.2; 455/77	Borras; Jaime A. et al.
113	455/183.1	Borras; Jaime A. et al.
114	455/566	Mallien, II; Thomas O.
115	331/25; 455/183.1	Aschwanden; Felix
116	455/166.1	Harris; Raymond W. et al.

	Document ID	Issue Date	Pages	Title	Current OR
117	US 4176248 A	19791127	9	System for identifying and correcting the polarity of a data signal	375/286
118	US 4153876 A	19790508	27	Charge transfer device radio system	455/84
119	US 4147984 A	19790403	34	Dual digital processor transceiver	340/7.55
120	US 4145656 A	19790320	25	Transceiver capable of sensing a clear channel	455/77
121	US 4132950 A	19790102	23	Clarifying radio receiver	455/183.2
122	US 4130731 A	19781219	24	Portable telephone system	455/403
123	US 4122304 A	19781024	21	Control circuitry for a radio telephone	455/564
124	US 4095215 A	19780613	34	Pager subsystems	340/825.71

	Current XRef	Inventor
117	327/231; 327/28; 361/246; 375/340	Sheets; Laurence L.
118	333/165; 455/333	Cochran; Michael J.
119	340/7.21; 455/151.1; 455/158.2; 455/234.2; 455/77	Caudel; Edward R. et al.
120	340/7.42; 455/339; 455/516; 455/62; 455/701; 455/73; 455/76	Merryman; Jerry D. et al.
121	455/266; 455/339; 455/340; 455/76; 455/77	Cochran; Michael J. et al.
122	340/7.38; 340/7.42; 379/388.02; 379/395.01; 455/567; 455/574	Bolgiano; Duane R. et al.
123	455/566	Mallien, II; Thomas Owen
124	455/344	Mortimer; Thomas J.

	Document ID	Issue Date	Pages	Title	Current OR
125	US 4021608 A	19770503	31	Print-on-the-fly pager	340/7.54
126	US 3996581 A	19761207	32	Hard copy tone address paging system	340/825.75
127	US 3808537 A	19740430	21	RADIOTELEPHONE SYSTEM WITH CENTRAL OFFICE HAVING INDIVIDUAL PROCESSORS ASSIGNABLE TO RESPECTIVE MOBILE UNITS ABOARD COMMUNICATING VEHICLES	375/303
128	US 3806663 A	19740423	55	RADIO TELEPHONE SUBSCRIBER UNIT	455/572
129	US 3729595 A	19730424	23	RADIOTELEPHONE SYSTEM WITH CENTRAL OFFICE HAVING INDIVIDUAL PROCESSORS ASSIGNABLE TO RESPECTIVE MOBILE UNITS ABOARD COMMUNICATING VEHICLES	455/403

	Current XRef	Inventor
125	178/23R; 178/4.1A; 340/7.21; 340/7.55; 347/218; 347/222; 400/118.2; 400/568; 400/615.2; 400/73; 400/88; 455/344	Brodeur; Lester R.
126	178/30; 340/7.35; 347/222; 375/334; 400/70; 400/73; 400/88	Brodeur; Lester R. et al.
127	340/825.73; 455/450; 455/560	Sarati; Luigi et al.
128	455/550.1	Peek; Benjamin Roger et al.
129	340/825.73; 455/560; 455/567	Sarati; Luigi et al.